



OIPE

RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/001,221A

TIME: 12:20:11

Input Set : A:\10709-14 sequence listing.ST25.txt

Output Set: N:\CRF4\10292002\J001221A.raw

3 <110> APPLICANT: Schall, Thomas J. Talbot, Dale Berkowitz, Robert
 4 Zheng, Wei Premack, Brett Howard, Maureen
 6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INDUCING AN IMMUNE RESPONSE
 8 <130> FILE REFERENCE: 10709/14
 10 <140> CURRENT APPLICATION NUMBER: 10/001,221A
 12 <141> CURRENT FILING DATE: 2001-10-30
 14 <150> PRIOR APPLICATION NUMBER: 09/834,814
 16 <151> PRIOR FILING DATE: 2001-04-20
 18 <160> NUMBER OF SEQ ID NOS: 7
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 76
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 29 Gln Pro Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Phe Asn Val Ile
 30 1 5 10 15
 33 Asn Arg Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg Ile Thr
 34 20 25 30
 37 Asn Ile Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Gln Arg Gly
 38 35 40 45
 41 Lys Glu Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp Ser Met
 42 50 55 60
 45 Lys His Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro
 46 65 70 75
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 95
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Homo sapiens
 54 <400> SEQUENCE: 2
 55 Gly Leu Ile Gln Glu Met Glu Lys Glu Asp Arg Arg Tyr Asn Pro Pro
 56 1 5 10 15
 59 Ile Ile His Gln Gly Phe Gln Asp Thr Ser Ser Asp Cys Cys Phe Ser
 60 20 25 30
 63 Tyr Ala Thr Gln Ile Pro Cys Lys Arg Phe Ile Tyr Tyr Phe Pro Thr
 64 35 40 45
 67 Ser Gly Gly Cys Ile Lys Pro Gly Ile Ile Phe Ile Ser Arg Arg Gly
 68 50 55 60
 71 Thr Gln Val Cys Ala Asp Pro Ser Asp Arg Arg Val Gln Arg Cys Leu
 72 65 70 75 80
 75 Ser Thr Leu Lys Gln Gly Pro Arg Ser Gly Asn Lys Val Ile Ala
 76 85 90 95
 79 <210> SEQ ID NO: 3

ENTERED

RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/001,221A

TIME: 12:20:11

Input Set : A:\10709-14 sequence listing.ST25.txt

Output Set: N:\CRF4\10292002\J001221A.raw

```

80 <211> LENGTH: 68
81 <212> TYPE: PRT
82 <213> ORGANISM: Homo sapiens
84 <400> SEQUENCE: 3
85 Gly Pro Tyr Gly Ala Asn Val Glu Asp Ser Ile Cys Cys Gln Asp Tyr
86 1 5 10 15
89 Ile Arg His Pro Leu Pro Ser Arg Leu Val Lys Glu Phe Phe Trp Thr
90 20 25 30
93 Ser Lys Ser Cys Arg Lys Pro Gly Val Val Leu Ile Thr Val Lys Asn
94 35 40 45
97 Arg Asp Ile Cys Ala Asp Pro Arg Gln Val Trp Val Lys Lys Leu Leu
98 50 55 60
101 His Lys Leu Ser
102 65
105 <210> SEQ ID NO: 4
106 <211> LENGTH: 94
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Chimeric molecule
113 <400> SEQUENCE: 4
114 Gly Leu Ile Gln Glu Met Glu Lys Glu Asp Arg Arg Tyr Asn Pro Pro
115 1 5 10 15
118 Ile Ile His Gln Gly Phe Gln Asp Thr Ser Ser Asp Cys Cys Phe Asn
119 20 25 30
122 Val Ile Asn Arg Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg
123 35 40 45
126 Ile Thr Asn Ile Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Gln
127 50 55 60
130 Arg Gly Lys Glu Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp
131 65 70 75 80
134 Ser Met Lys His Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro
135 85 90
138 <210> SEQ ID NO: 5
139 <211> LENGTH: 77
140 <212> TYPE: PRT
141 <213> ORGANISM: Artificial sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Chimeric molecule
146 <400> SEQUENCE: 5
147 Gln Pro Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Phe Ser Tyr Ala
148 1 5 10 15
151 Thr Gln Ile Pro Cys Lys Arg Phe Ile Tyr Tyr Phe Pro Thr Ser Gly
152 20 25 30
155 Gly Cys Ile Lys Pro Gly Ile Ile Phe Ile Ser Arg Arg Gly Thr Gln
156 35 40 45
159 Val Cys Ala Asp Pro Ser Asp Arg Arg Val Gln Arg Cys Leu Ser Thr
160 50 55 60
163 Leu Lys Gln Gly Pro Arg Ser Gly Asn Lys Val Ile Ala

```

RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/001,221A

TIME: 12:20:11

Input Set : A:\10709-14 sequence listing.ST25.txt

Output Set: N:\CRF4\10292002\J001221A.raw

```

164 65                               70                               75
167 <210> SEQ ID NO: 6
168 <211> LENGTH: 78
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Chimeric molecule
175 <400> SEQUENCE: 6
176 Gly Pro Tyr Gly Ala Asn Val Glu Asp Ser Ile Cys Cys Phe Asn Val
177 1                               5                               10                               15
180 Ile Asn Arg Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg Ile
181                               20                               25                               30
184 Thr Asn Ile Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Lys Thr Gln
185                               35                               40                               45
188 Arg Gly Lys Glu Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp
189                               50                               55                               60
192 Ser Met Lys His Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro
193 65                               70                               75
196 <210> SEQ ID NO: 7
197 <211> LENGTH: 67
198 <212> TYPE: PRT
199 <213> ORGANISM: Artificial sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Chimeric molecule
204 <400> SEQUENCE: 7
205 Gln Pro Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Gln Asp Tyr Ile
206 1                               5                               10                               15
209 Arg His Pro Leu Pro Ser Arg Leu Val Lys Glu Phe Phe Trp Thr Ser
210                               20                               25                               30
213 Lys Ser Cys Arg Lys Pro Gly Val Val Leu Ile Thr Val Lys Asn Arg
214                               35                               40                               45
217 Asp Ile Cys Ala Asp Pro Arg Gln Val Trp Val Lys Lys Leu Leu His
218                               50                               55                               60
221 Lys Leu Ser
222 65

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/001,221A

DATE: 10/30/2002

TIME: 12:20:12

Input Set : A:\10709-14 sequence listing.ST25.txt

Output Set: N:\CRF4\10292002\J001221A.raw